

Fig. 1

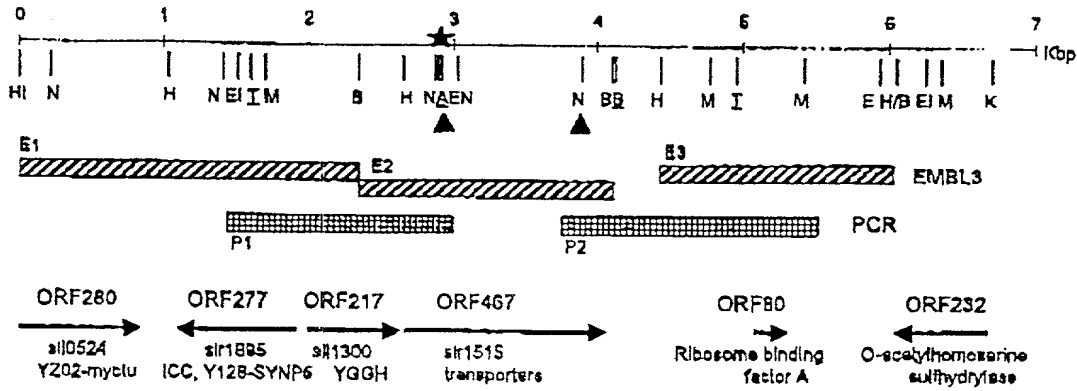


Fig. 4a

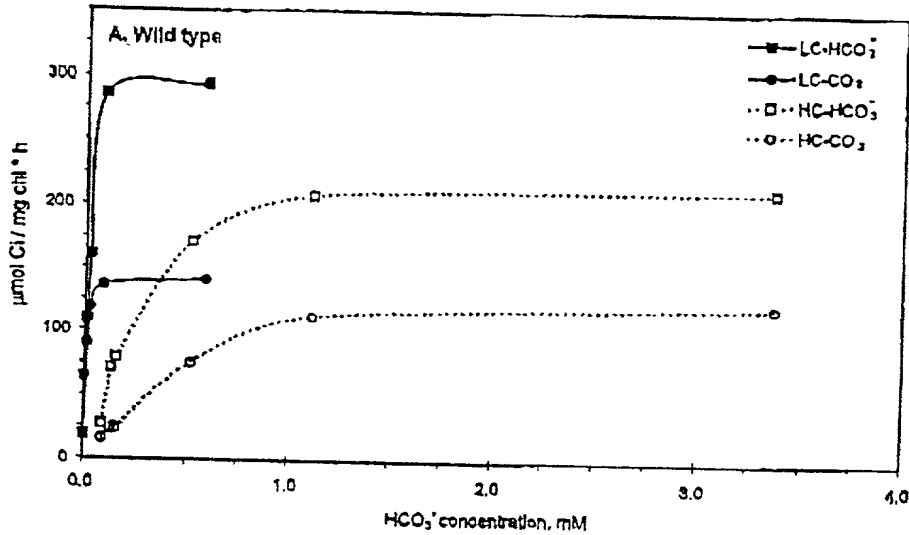


Fig. 4b

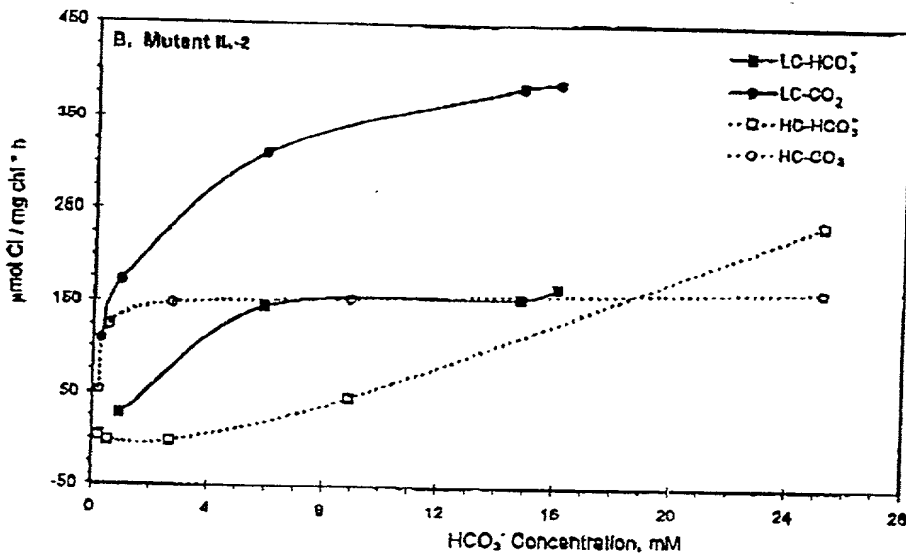


FIGURE 2

ICTB : 1 ATGACTGTCTGGCAAACCTCTGACTTTTGGCCATTACCAACCCCAACAGTGGGGCCACAGC 60 (SEQ ID NO:2)  
 || || ||||| || |||| |||| || |||| || ||||| ||  
 SLR : 13 ATCTCTATCTGGCGATCGCTGATGTTTGGCGGTTTTCCTCCAGGAATGGGGCCGGGGC 72 (SEQ ID NO:4)  
 || || ||||| || |||| |||| || |||| || ||||| ||

ICTB : 61 AGTTTCTTGCATCGGCTGTTTGGCAGCCTGC-GAGCTTGGCGGGCCTCCAGCCAGCTGTT 119  
 ||| | | |||| || | ||| | ||| |||| | || ||||  
 SLR : 73 AGTGTGCTCCATCGTTTGGTGGGCTGGGGACAGAG-TTGGATACAGGCTAGTGTGCTCTG 131  
 ||| | | |||| || | ||| | ||| |||| | || ||||

ICTB : 120 GGTTTGGTCTGAGGCACTGGGT--GGCTTCTTGCTTGCTGCTGCTACGGTTCGGCTCCG 177  
 | | | ||||| ||||| |||| || || || || || || || |||||  
 SLR : 132 GCCCCACTTCGAGGCATTGGGTACGGCT-CTAG-TGGCAATAATTTTATTGCGGCTCCC 189  
 || || || || || || || || || || || || || || || || ||

ICTB : 178 TTTGTGCCAGTTCGCGCCCTAGGGTGGGGCTAGCCGCGATCGCG-GCCTATTGGGGCCCT 236  
 || || || || || || || || || || || || || || || || ||  
 SLR : 190 TTCACCTCCACCACCATGTTGGGCATTTTAT-GCTGCTCTGTGGAGCCTTTTGGGCTCT 248  
 || || || || || || || || || || || || || || || || ||

ICTB : 237 GCTCTCGCTGACAGATATCGATCTGCGCAAGCA---ACCCCCATTCACTGGCTGGTGCT 293  
 ||| | | |||| || || || || || || || || || || || ||  
 SLR : 249 GCTGACCTTTGCTGAT--CAACCAG-GGAAGGGTTTGACTCCCATCCATGTTTATGTTTT 305  
 ||| | | |||| || || || || || || || || || || || ||

ICTB : 294 GCTCTACTGGGGCTCGATGCCCTAGCAACGGGACTCTCACCCTACGCGCTGCAGCTTT 353  
 || || || || || || || || || || || || || || || || ||  
 SLR : 306 TGCCCTACTGGTGCATTTTCGGCGATCGCCGTGGGATTTTCTCCGGTAAAAATGGCGGCGGC 365  
 || || || || || || || || || || || || || || || || ||

ICTB : 354 AGTTGGGCTAGCCAACTGAC-GCTC-TACCTGTTGGTTTTTGGCCCTAGCGGCTCGGGTT 411  
 ||| |||| |||| || || || || || || || || || || || ||  
 SLR : 366 GTCGGGGTTAGCGAAATTAACAGCTAATTTATGTCTGTTTCTAC--TGGCGGCGAGGTTA 423  
 ||| |||| |||| || || || || || || || || || || || ||

ICTB : 412 CTCCGCAATCCCCGTCTGC-GATCGCTGCTGTTCTCGGTCGTCGTGATCACATCGCTTTT 470  
 || || || || || || || || || || || || || || || || ||  
 SLR : 424 TTGCAAAACAACAAATGGTTGAAC-CGGTTAGTAACCGTTGTTTACTGGTAGGGCTATT 482  
 || || || || || || || || || || || || || || || || ||

ICTB : 471 TGTCAGTGTCTACGGCCTCAACCAATGGATCTACGGCGTTGAAGAGCTGGCGACTTGGGT 530  
 || | |||| || || || || || || || || || || || || || ||  
 SLR : 483 GGTGGGGAGTTACGGTCTGCGACAACAGGTGGACGGGGTAGAACAGTTAGCCACTTGGA 542  
 || || || || || || || || || || || || || || || || ||

ICTB : 531 GGATCGCAACTCGGTTGCCGACTTCACCTCACGGGTTTACAGCTATCTGGGCAACCCCAA 590  
 || || || || || || || || || || || || || || || || ||  
 SLR : 543 TGACCCACCTCTACCTTGCCCCAGGCCACTAGGGTATATAGCTTTTATAGTAATCCCAA 602  
 || || || || || || || || || || || || || || || || ||

ICTB : 591 CCTGTGCGTCTGCTTATCTGGTGCCGACGACTGCCTTTT-CTGCAGCAGCGATCGGGGTGT 649  
 || || |||| |||| ||||| || || || || || || || || || ||  
 SLR : 603 TCTCTTGGCGGCTTACCTGGTGCCCATGACGGGTTTGAGCTGAGT-GCCCTGGTGGTAT 661  
 || || || || || || || || || || || || || || || || ||

ICTB : 650 GGC GCGGCTGGCTCCCCAAGCTGCTGGCGATCG-CTGCGACAGGTGCGAGCAGCTTATGT 708  
 |||| | ||| ||||| ||||| || || | || || || || || ||  
 SLR : 662 GGC GACGGTGGTGGCCCAAAGCTGCTGG-GAGCAACCATGGTGATTGTTAACCTACTCTGT 720  
 |||| | ||| ||||| ||||| || || | || || || || || ||

ICTB : 709 CTGATCCTCACCTACAGTCGCGGTGGCTGGCTGGGTTTTGTGCGCATGATTTTTGTCTGG 768  
 || | || || || || || || || || || || || || || || ||  
 SLR : 721 CTCTTTTTTACCCAGAGCCGGGCGGTTGGCTAGCAGTGTGCGCCTGGGAGCTACCTTC 780  
 || || || || || || || || || || || || || || || || ||

ICTB : 769 GCGTTATTAGGGCTCTACTGGTTTCAACCCCGTCTACCCGACCCCTGGCGACGCTGGCTA 828  
 | | | || || || |||| |||| |||| | || || || || || ||  
 SLR : 781 CTGCGCCTTTGTTACTTCTGGTGGTTACCCCAATTACCCAAATTTTGGCAACGGTGGTCT 840  
 || || || || || || || || || || || || || || || || ||

ICTB : 829 TTCCAGTCGTATTGGGTGGACTAGTCGCGGTGCTCTT-GGTGGCGGTGCTTGGACT--- 884  
 || || | || || || || || || || || || || || || || || ||  
 SLR : 841 TTGCCCCCTGGC----GATCGCC--GTGGCGGTTATATTAGGTGGGGGAGCGTTGATTGCG 894  
 || || || || || || || || || || || || || || || || ||

ICTB : 885 -TG-AGCCGTTGCGCGTGC GCGTGTGAGCATCTTTGTGGGGCGTGAAGACAGCAGCAAC 942  
 || || || || || || || || || || || || || || || || ||  
 SLR : 895 GTGGAACCGATTTCGACTCAGGGCCATGAGCATTTTGTGCTGGGCGGGAAGACAGCAGTAAT 954  
 || || || || || || || || || || || || || || || || ||

[illegible]

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ICTB : 943   AACTTCCGGATCAATGTCTGGCTGGCGGTGCTGCAGATGATTCAGATCGGCCCTGGCTG 1002
          || ||||| ||||| ||| | ||| | ||| || ||| |
SLR : 955   AATTTCCGCATCAATGTTTGGGAAGGGGTAAAGCCATGATCCGAGCCCGCCTATCATT 1014

ICTB : 1003  GGCATCGGCCCCGCAATACCGCCTTTAACCTGGTTTATCCCCTCTATCAACAGGCGCGC 1062
          ||||| ||||| || || | ||||| ||||| ||||| ||| | |||
SLR : 1015  GGCATTGGCCAGGTAACGAAGCCTTTAACCAAATTTATCCTTACTATATGCGGCCCCGC 1074

ICTB : 1063  TTTACGGCGTTGAGCGCCTACTCCGTCCCGCTGGAAGTCGCGGTTGAGGGCGGACTACTG 1122
          || ||| ||||| ||| | ||| | ||| | ||| | |||
SLR : 1075  TTCACGCCCTGAGTGCTATTCCATTTACCTAGAAATTTTGGTGAAACGGGTGTAGTT 1134

ICTB : 1123  GGCTTGA-CGGCCTTCGCTTGGCTGCT-GCTGGTCACGGCGGTGACGGCGGTGCGGCAGG 1180
          || ||| ||||| ||||| ||||| ||| | ||| | |||
SLR : 1135  GGTTTTACCTGTATGCTC-TGGCTGTTGGCCGTTACCCTAGGCCAAAGGC-GTAGAACTGG 1192

ICTB : 1181  TGAGCCGACTGCGGCGCGATCGCAATCCCC--AAGCCTTTTGGTTGATGGCTAGCTTGGC 1238
          || ||| ||||| ||||| ||||| ||||| ||||| |||||
SLR : 1193  TTAAACG-CTGTCGC-CAAA CCTCGCCCCGGAAGGCATCTGGATTATGGGGGCTTTAGC 1250

ICTB : 1239  CGGTTTGGCAGGAATGCTGGGTACGGTCTGTTTGATACCGTCTCTATCGACCGGAAGC 1298
          || ||| ||||| ||||| ||||| ||||| ||||| |||||
SLR : 1251  GGCGATCATCGGTTTGTGTGCTCCACGGCATGGTAGATACAGTCTGGTACCGTCCCCCGGT 1310

ICTB : 1299  CAGTACGCTCTGGTGGCTCTGTATTGG--AGCGATCGCGAGTTTCTGG--CAGC-CCCAA 1353
          || ||| ||||| ||||| ||||| ||||| ||||| |||||
SLR : 1311  GAGCACTTTGTGGTGG-TTGCTAGTGGCCATTG-TTGCTAGTCAGTGGGCCAGCGCCAG 1368

ICTB : 1354  CCTTCCAAGCAACTCCCTCCAGAAGCCGAGCATTCAGACGAA 1395
          . . . . . ||||| ||||| ||||| |||||
SLR : 1369  GCCCGTTTGGAGGCCAGTAAAGAA---GAAATGAGGACAAA 1407

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FIGURE 3

ICTB : 1 MTVWQTLTFAHYQPQWGHSSFLHRLFGSLRAWRASSQLLVWSEALGGFLLAVVYGSAPF 60  
 +++W++L F + PQ+WG S LHRL G ++W +S L EALG L+A+++ +APF  
 SLR : 5 ISIWRSMLFGGFSPQEWGRGSVLHRLVGVGQSWIQASVLWPHFEALGTALVAIIFIAAPF 64

ICTB : 61 VPSSALGLGLAAIAAYWALLSLTDIDLQATPIHVLVLLYWGVDALATGLSPVRAAALVG 120  
 ++ LG+ + A+WALL+ D + TPIH LV YW + A+A G SPV+ AA G  
 SLR : 65 TSTTMLGIFMLLCGAFWALLTFADQPGKGLTPIHVLVFAYWCISAIAVGFSPVKMAAASG 124

ICTB : 121 LAKLTLYLLVFALAARVLRNPRLRSLLFSVVVITSLFVSVYGLNQWIYGVVEELATWVDRN 180  
 LAKLT L +F LAAR+L+N + + L +VV++ L V YGL Q + GVE+LATW D  
 SLR : 125 LAKLTANLCLFLLAARLLQNKQWLNRLVTVVLLVGLLVGSYGLRQQVDGVEQLATWNDPT 184

ICTB : 181 SVADFTSRVYSYLGPNLLAAYLVPTTAFSAAAIGVWRGWLPKLLAIAATGASSLCLILT 240  
 S +RVYS+LGNPNLLAAYLVP T S +A+ VWR W PKLL + LCL T  
 SLR : 185 STLAQATRVYSFGLGNPNLLAAYLVPMGTGLSLSALVVWRRWWPKLLGATMVIVNLLCLFFT 244

ICTB : 241 YSRGGWLGFEVAMIFVWALLGLYWFQPRLPAPWRRWLFPVVLGGLVAVLLVAVLGLEPLRV 300  
 SRGGWL +A+ + L +W+ P+LP W+RW P+ + V + A++ +EP+R+  
 SLR : 245 QSRGGWLAVLALGATFLALCYFWWLPQLPKFWQRWSLPLAIAVAVILGGGALIAVEPIRL 304

ICTB : 301 RVLSIFVGREDSSNNFRINWLAVLQMIQDRPWLIGPGNTAFNLVYPLYQQARFTALSA 360  
 R +SIF GREDSSNNFRINW V MI+ RP +GIGPGN AFN +YP Y + RFTALSA  
 SLR : 305 RAMSIFAGREDSSNNFRINWEGVKAMIRARPIIGIGPGNEAFNQIYPYMRPRFTALSA 364

ICTB : 361 YSVPLEVAVEGGLLGLTAFAWLLLVTAVTAVRQVSRLRRDRNPQAFWLMASLAGLAGMLG 420  
 YS+ LE+ VE G++G T WLL VT V V R R+ P+ W+M +LA + G+L  
 SLR : 365 YSIYLEILVETGVVGFTCMLWLLAVTLGKGVELVKRCRQTLAPEGIWIMGALAAIIGLLV 424

ICTB : 421 HGLFDTVLYRPEASTLWWLCIGAIASFWQPQPSKQLPPEAEHSDEKM 467  
 HG+ DTV YRP STLWWL + +AS W ++ + E+ D+ +  
 SLR : 425 HGMVDTVWYRPPVSTLWWLLVAIVASQWASAQARLEASKEENEDKPL 471

Fig. 5

Wild type	GGGCT-AGCCGCGATCGCGGCCTATTGGGCCC	(SEQ ID NO: 6)
IL-2 ApaI side	GGGCT-AG--G-GATCGC-GCCTATTGGGCCC	(SEQ ID NO: 7)
IL-2 BamHI side	GGGCTCA-----GATCGC-GCCTATTGGGCCC	(SEQ ID NO: 8)
IctB	G L A A I A A Y W A L	(SEQ ID NO: 9)

Fig. 6

